

Public Meetings versus TAC Meetings?

- Technical Advisory Committee (TAC) Meetings
 - Everyone Welcome
 - Held at the most convenient time and place
 - More time to discuss technical issues
 - Potential Small Working Groups
- Public Meetings at Night
 - Discuss TMDL Results
 - Overview for folks that could not make TAC meetings

Why Am I Here?

- Water Quality Problem = Special Study (TMDL)
 - Sectoria Standard Violations (De-listed)
 - S Dissolved Oxygen Standard Violations
 - **S** Biological Monitoring Indicates Stressed Community
- Need Community Participation to make the Study more Accurate



What is a TMDL?

TMDL = Total Maximum Daily Load

- The Amount of Pollution A Stream Can Receive and Still Meet Water Quality Standards
- A TMDL Study ID's All Sources of Pollution
- Calculate the Amount of Pollutants Entering the Waterbody from Each Source.
- Calculate the Reductions in Pollutants, by Source, Needed to Attain/Maintain Water Quality Standards.

Why Do A TMDL?

- 1972 Clean Water Act (CWA)
 - Periodic Assessment and Impaired Waters Listing
 - Develop TMDLs for Impaired Waters
- 1997 Water Quality Monitoring Information and Restoration Act (WQMIRA)
 - Requires TMDLs for Impaired Waters
 - Requires an Implementation Plan



TMDL Development Steps

- Place impaired waters on 303(d) list due to water quality standards violations
- Develop TMDL(s) for impaired waters (one per pollutant)



- > Develop TMDL implementation plan
- > Implement TMDL
- Remove waters from 303(d) list when water quality standards achieved

Partnerships



Department of Conservation & Recreation

CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES

Monitoring/Assessmen

Assist in Development of NPS TMDLs

Overall Lead Agen

Public Participation

Nelop Implementation
Postormeet TMDL

INPUT (

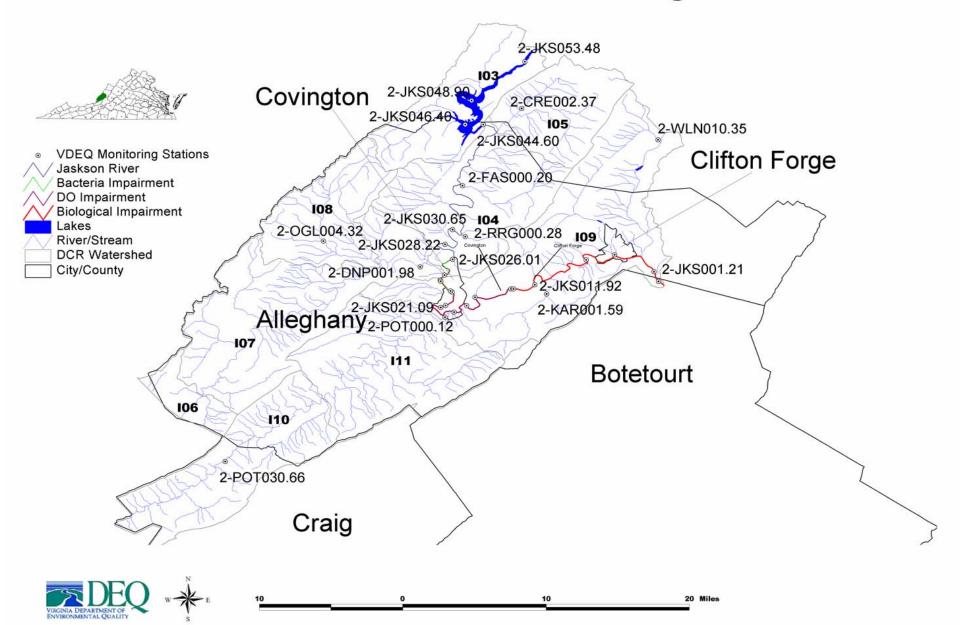
oct Share Funding

Develop TMDL

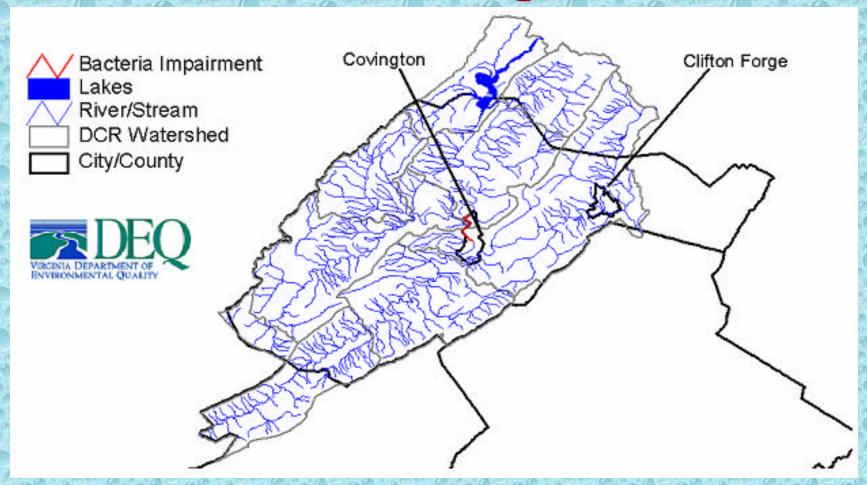
EPA Approval



Jackson River TMDL Study Area

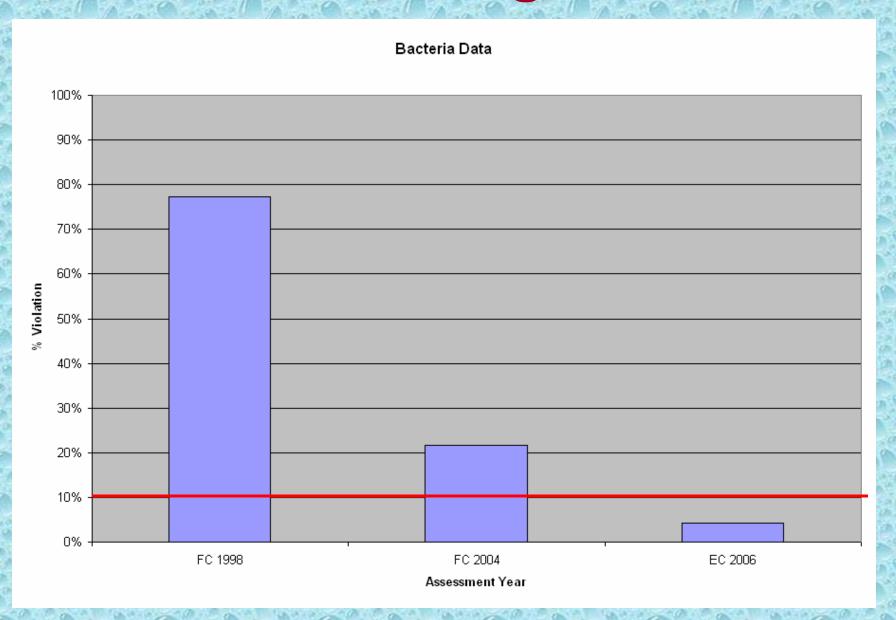


Bacteria Segment

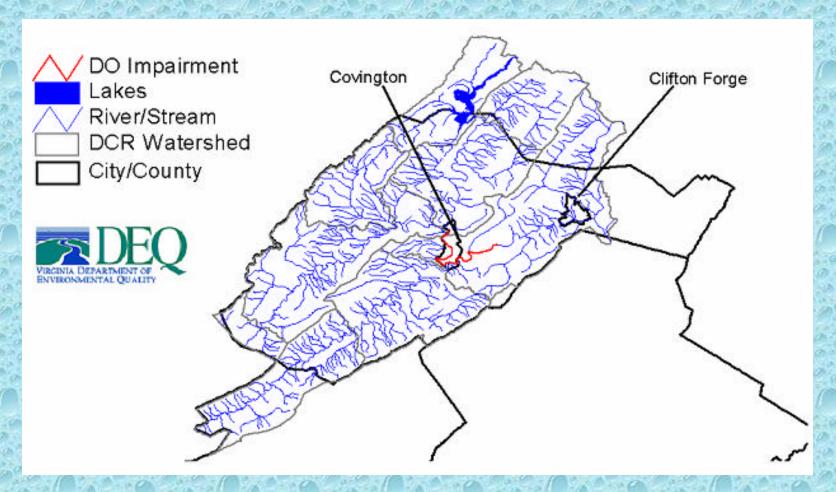


3.38 mile segment was listed as not meeting recreation (swimming use), de-listed with new *E.coli* data

Bacteria Segment



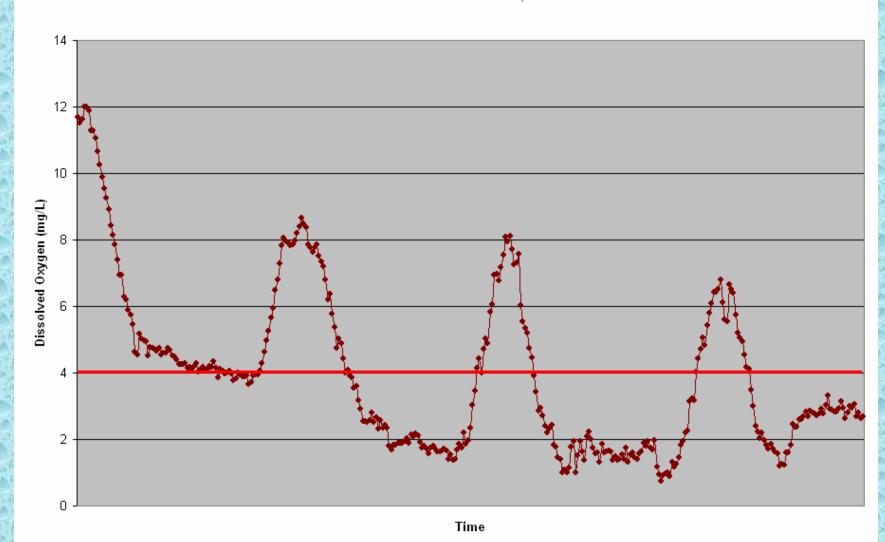
Dissolved Oxygen



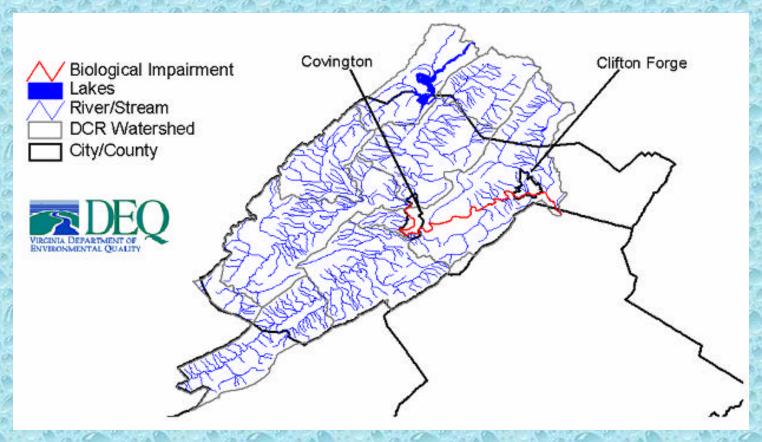
11.21 mile segment was listed for low dissolved oxygen (not supporting aquatic life use). Diurnal DO recorders during early fall in the past have found large diurnal swings.

Dissolved Oxygen

Jackson River October 1-7, 2002



Biological Impairment



24.21 mile segment was listed as not supporting aquatic life use using biological monitoring data (next presentation).

Stressor Development

Review of Biological, Habitat and Chemical Data

Candidate Stressors:

- pH
- Temperature
- Dissolved Oxygen
- Nutrients (Nitrogen and Phosphorus)
- Toxins (Metals and Organics)
- Solids (Sedimentation)
- Habitat Degradation

Next Steps

- Stressor Analysis Presentation
 - Model Development (Based on Endpoint from Stressor Analysis)
 - Model Runs (Building Scenarios)
 - Allocations and Solutions
 - Set up next TAC meeting (1-2 months from now)



Contact Info

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Presentations:

http://www.deq.virginia.gov/tmdl/mtgppt.html Reports:

http://gisweb.deq.virginia.gov/tmdlapp/tmdl_draft_reports.cfm